

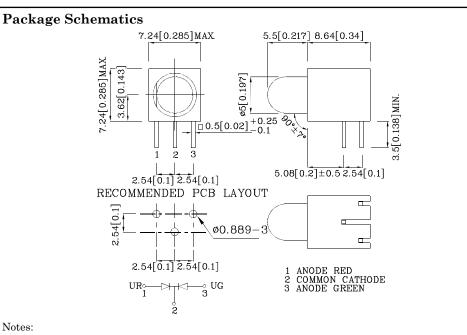
## Part Number: XVM1LUGR59M

T-1 3/4 (5mm) BI-COLOR RIGHT ANGLE LED IN-DICATOR

### **Features**

- Housing material: Type 66 Nylon
- Black casing provides superior contrast
- Housing UL rating: 94V-0
- Reliable & robust
- RoHS Compliant





Notes:

1. All dimensions are in millimeters (inches).

2. Tolerance is  $\pm 0.25(0.01")$  unless otherwise noted.

3. Specifications are subject to change without notice.

Absolute Maximum Ratings (T <sub>A</sub> =25°C)		UR (GaAsP/ GaP) UG (GaP)		Unit	Operating Characteristics (T <sub>A</sub> =25°C)		UR (GaAsP/ GaP)	UG (GaP)	Unit
Reverse Voltage	V <sub>R</sub>	5	5	V	Forward Voltage (Typ.)	$V_{\rm F}$	2	2.2	v
Forward Current	$I_{\rm F}$	30	25	mA	(I <sub>F</sub> =20mA)				
Forward Current (Peak) 1/10 Duty Cycle	i <sub>FS</sub>	160	140	mA	Forward Voltage (Max.) (I <sub>F</sub> =20mA)	$V_{\rm F}$	2.5	2.5	V
0.1ms Pulse Width	115	100	140	1117 1	Reverse Current (Max.)	IR	10	10	u/
Power Dissipation	$P_{D}$	75	62.5	mW	(V <sub>R</sub> =5V)		ļ	ļ	—
Operating Temperature	$T_{\rm A}$	$T_{\rm A}$ -40 ~ +85		°C	Wavelength of Peak Emission CIE127-2007* (Typ.)	λP	627*	565*	nm
Storage Temperature	Tstg			C	(I <sub>F</sub> =20mA)				
Lead Solder Temperature [2mm Below Package Base]	260°C For 3 Seconds				Wavelength of Dominant Emission CIE127-2007* (Typ.) (I <sub>F</sub> =20mA)	λD	617*	568*	nr
Lead Solder Temperature [5mm Below Package Base]	260°C For 5 Seconds				Spectral Line Full Width At Half-Maximum (Typ.)	$ riangle \lambda$	45	30	nr

		Emitting Material	$(V_F=0V, f=1MHz)$		С	15	15	рF
Part Number	Emitting Color		Lens-color	Luminous Intensity CIE127-2007* (I <sub>F</sub> =20mA) mcd		Wavelengt CIE127-200 nm λP	07* Viev An	Viewing Angle 20 1/2
				min.	typ.			
XVM1LUGR59M	Red	GaAsP/GaP	- White Diffused -	30 20*	59 39*	627*		00
	Green	GaP	- white Diffused	20 20*	59 59*	565*	60	0-

Capacitance (Typ.)

\*Luminous intensity value and wavelength are in accordance with CIE127-2007 standards.

Dec 31,2013

XDSA2865 V8-X Layout: Maggie L.

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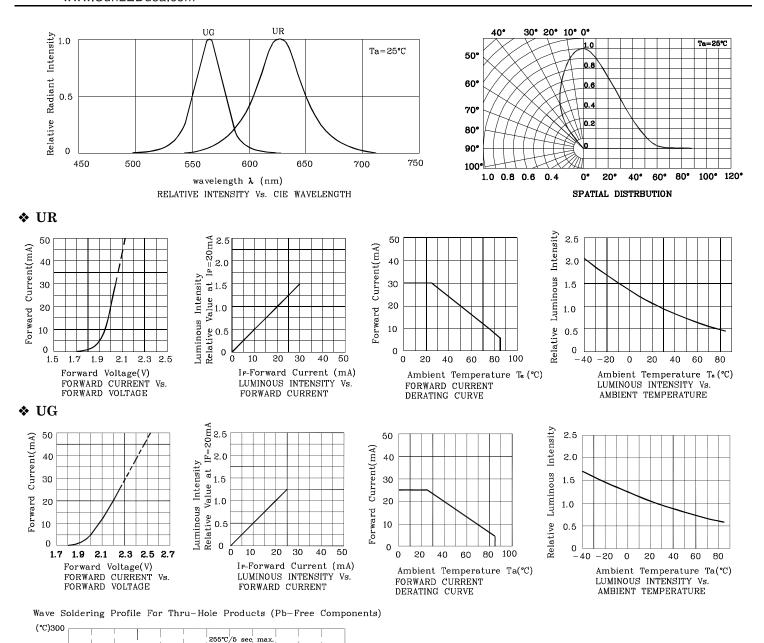
15

 $_{\rm pF}$ 

15

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#### Remarks:

If special sorting is required (e.g. binning based on forward voltage, luminous intensity / luminous flux, or wavelength),

- the typical accuracy of the sorting process is as follows:
- 1. Wavelength: +/-1nm
- 2. Luminous Intensity / Luminous Flux: +/-15%
- 3. Forward Voltage: +/-0.1V
- Note: Accuracy may depend on the sorting parameters.

250

200

100 (8

50

0

(5 sec max).

4°C/s ma

Preheat

time:

Temperature 150

Notes:

N <30

(100°C)

60 sec max.

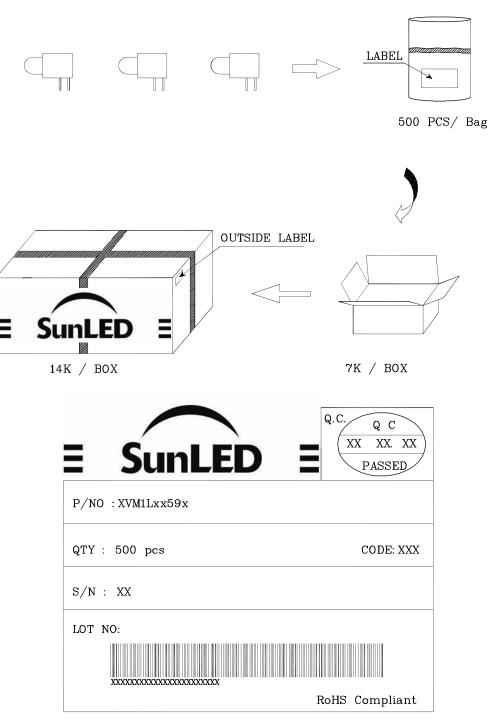
Time(sec)

Notes:
1. Recommend pre-heat temperature of 105°C or less (as measured with a thermocouple attached to the LED pins) prior to immersion in the solder wave with a maximum solder bath temperature of 260°C
2. Peak wave soldering temperature between 245°C ~ 255°C for 3 sec
(5 gas max)

(a) See final).
(b) see final).
(c) apply stress to the epoxy resin while the temperature is above 85°C.
(c) Fixtures should not incur stress on the component when mounting and during soldering process.
(c) Constraints of the stress of t



PACKING & LABEL SPECIFICATIONS



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